App No.: Not Yet Assigned Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

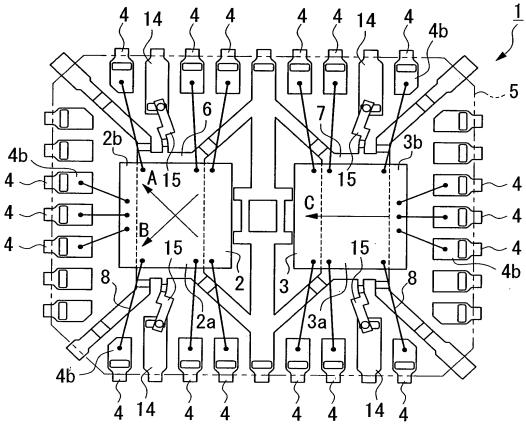


FIG. 1

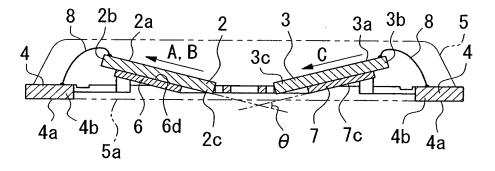


FIG. 2

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

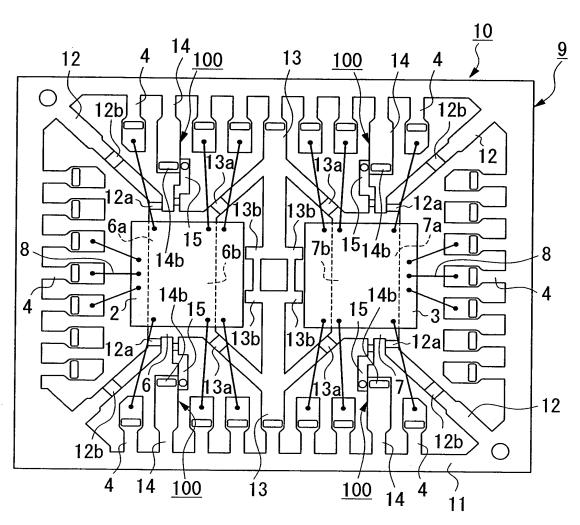


FIG. 3

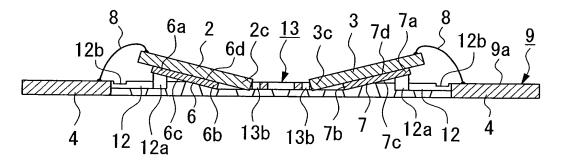


FIG. 4

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR AND LEAD FRAME THEREFOR

FIG. 5

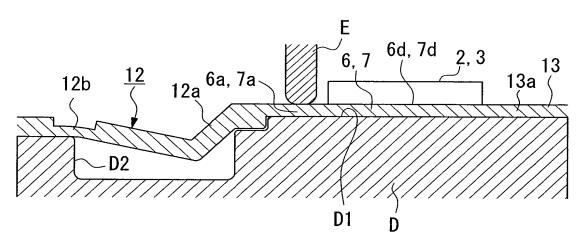


FIG. 6

App No.: Not Yet Assigned Docket No.: X2007.0136
Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR
AND LEAD FRAME THEREFOR

Docket No.: X2007.0136

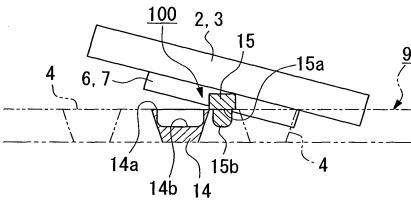


FIG. 7

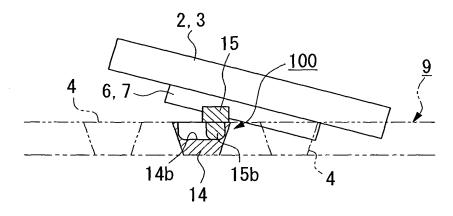


FIG. 8

App No.: Not Yet Assigned Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

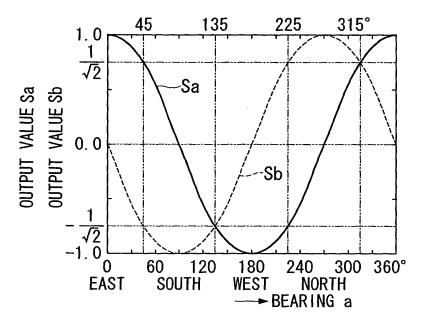


FIG. 9

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

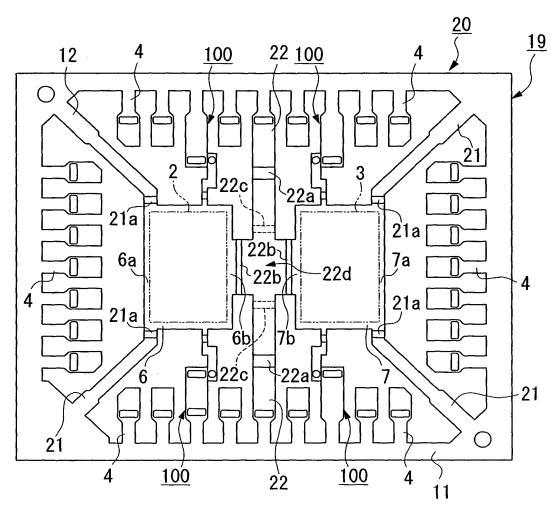
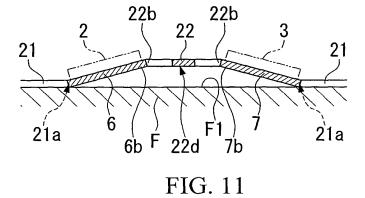


FIG. 10



Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

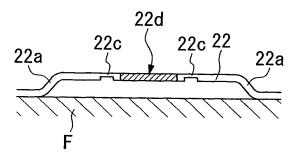


FIG. 12

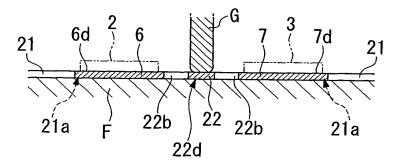


FIG. 13

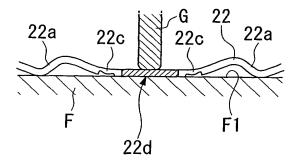


FIG. 14

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

AND LEAD FRAME THEREFOR

· 45.

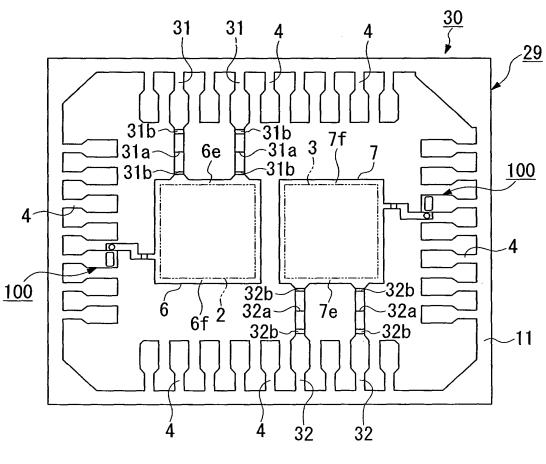


FIG. 15

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR AND LEAD FRAME THEREFOR

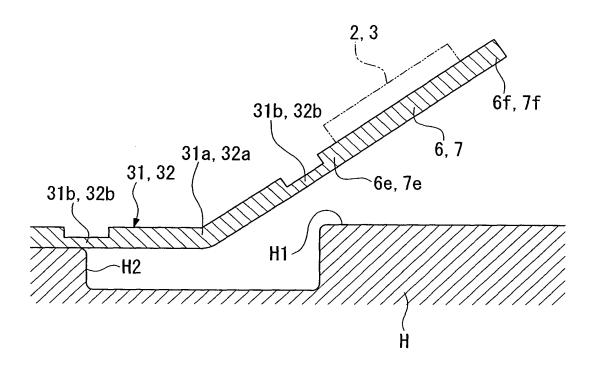


FIG. 16

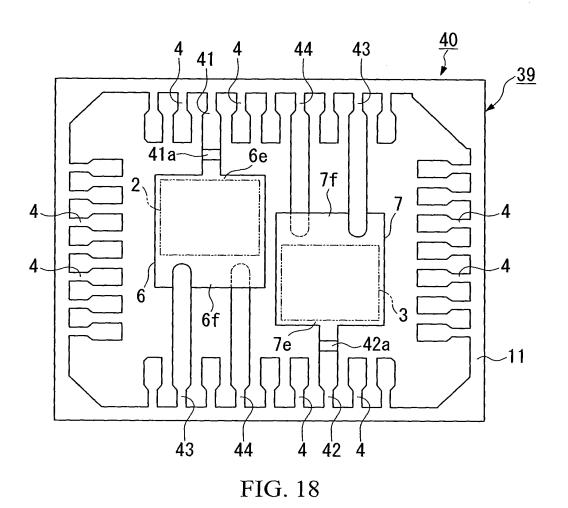
31b, 32b
31a, 32a
31b, 32b
31a, 32a
H1
H1
H
6f, 7f

FIG. 17

Docket No.: X2007.0136

App No.: Not Yet Assigned Docket No.: X2007.0136 Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



2, 3 41a, 42a 43 6d, 7d 1,1 6b, 7b 6a, 7a 6c, 7c 41, 42

FIG. 19

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

AND LEAD FRAME THEREFOR

2, 3 6d, 7d 41a, 42a 43 ղ 6f, 7f 41, 42 6, 7 44 6c, 7c 6e, 7e

FIG. 20

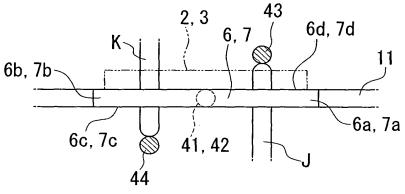
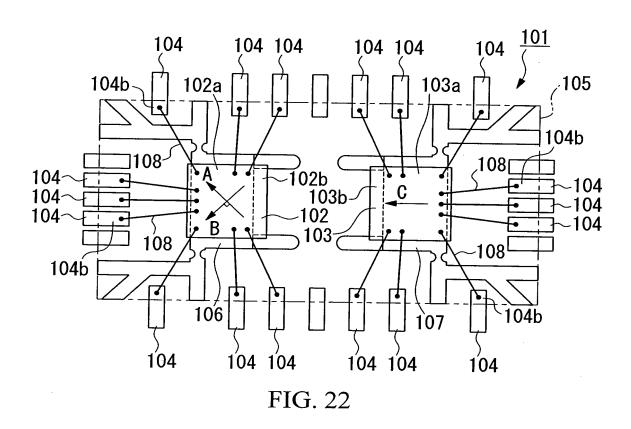


FIG. 21

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR AND LEAD FRAME THEREFOR



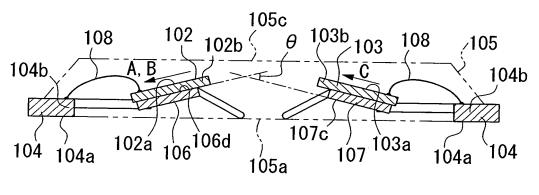


FIG. 23

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

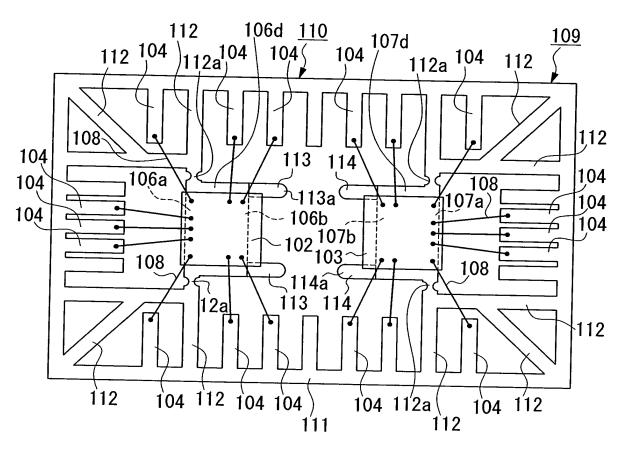


FIG. 24

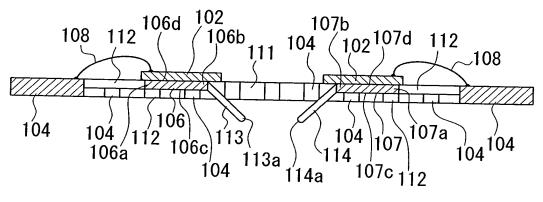


FIG. 25

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

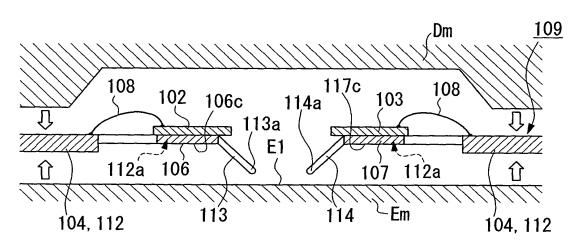


FIG. 26

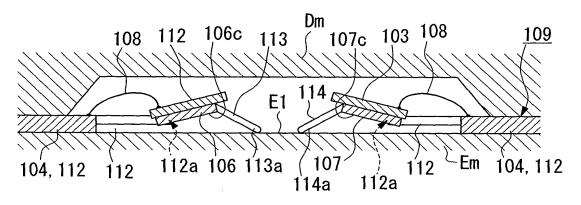
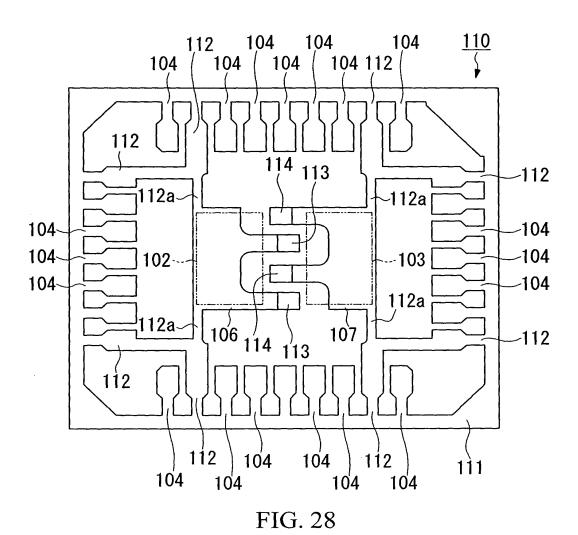


FIG. 27

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

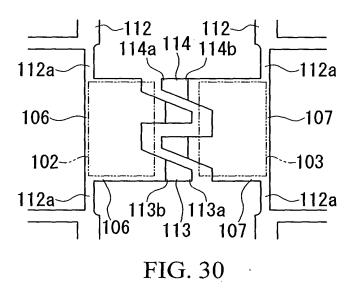


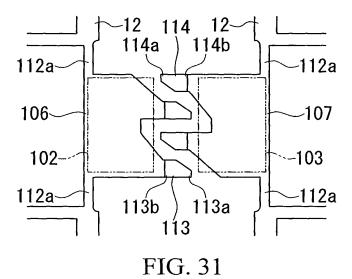
104 112 103 110 104 112 104 112 104 112 106

FIG. 29

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

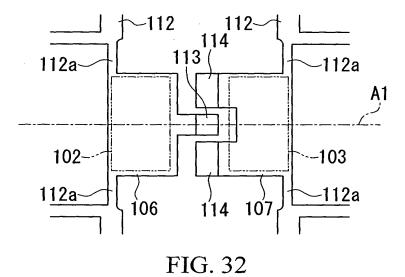




Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

AND LEAD FRAME THEREFOR



115 117 116 112a -112a -106b **-107** 106 107b 102--103 112a -112a 116

FIG. 33

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

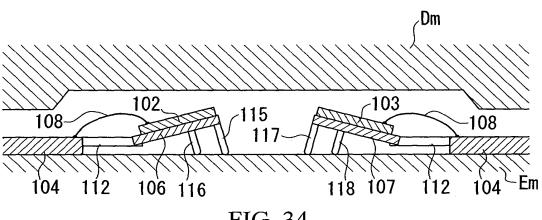


FIG. 34

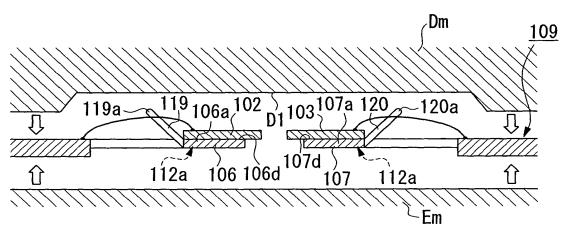


FIG. 35

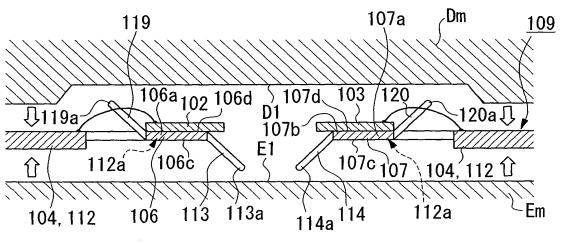


FIG. 36

Docket No.: X2007.0136

F 1999

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR AND LEAD FRAME THEREFOR

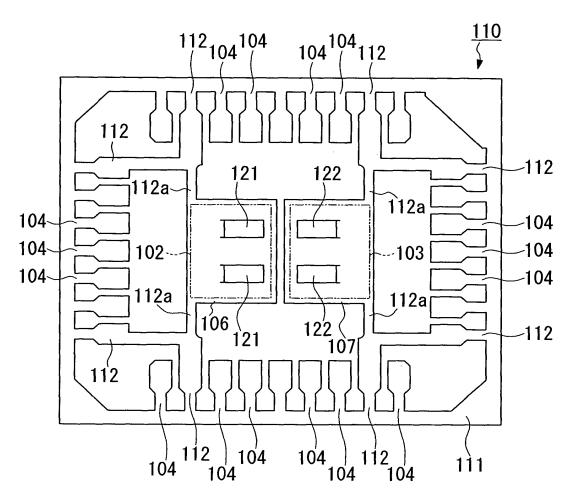


FIG. 37

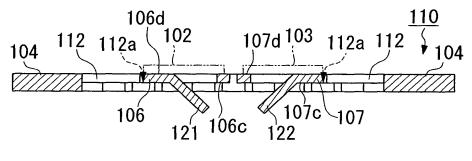
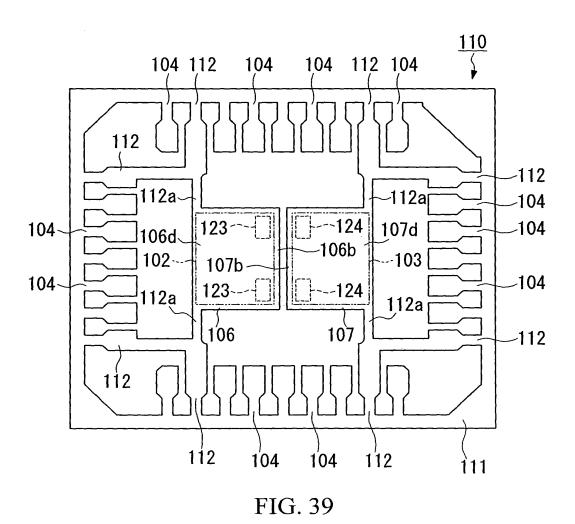


FIG. 38

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

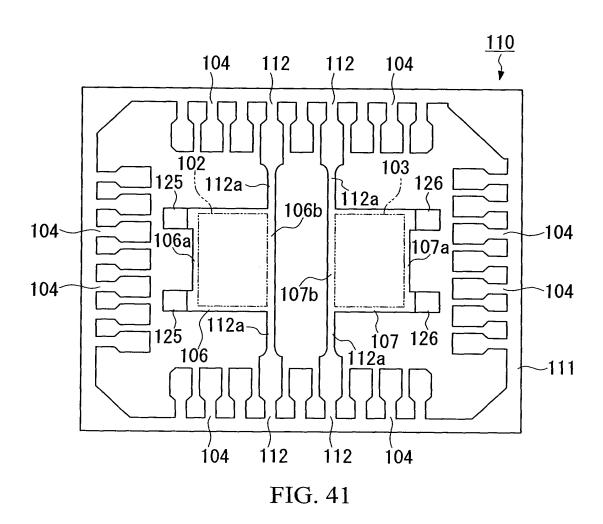


104 112 112a 102 103 107d 112a 110 104 106c 107 107

FIG. 40

Docket ... X0007.0136

App No.: Not Yet Assigned Docket Dock



Docket No.: X2007.0136

11 22

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR AND LEAD FRAME THEREFOR

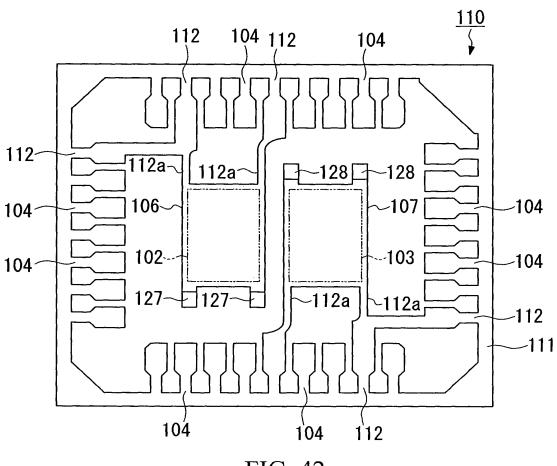


FIG. 42

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

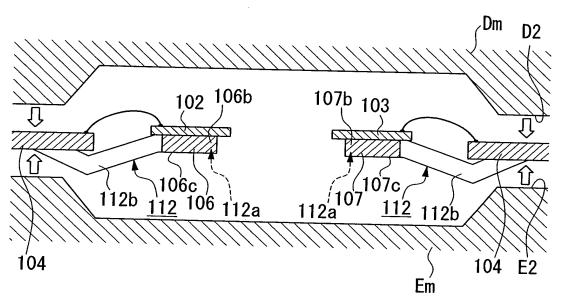


FIG. 43

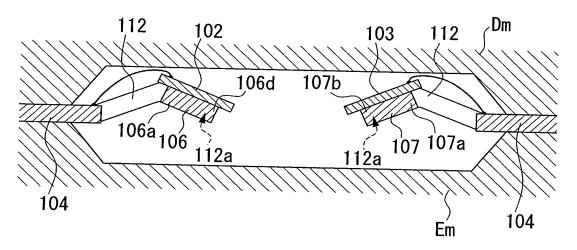
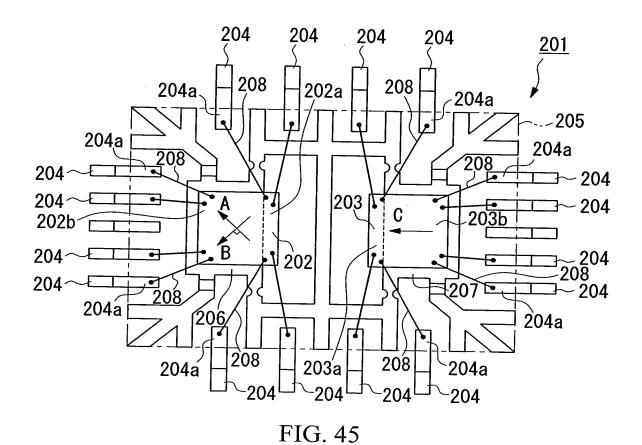
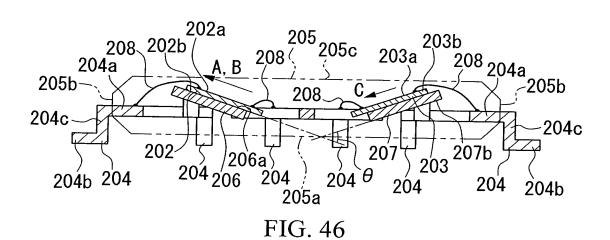


FIG. 44

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

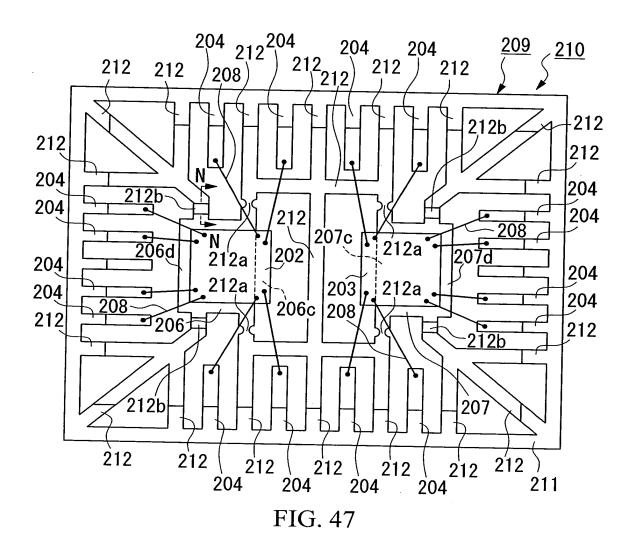




Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



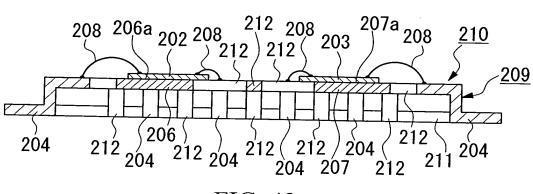


FIG. 48

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

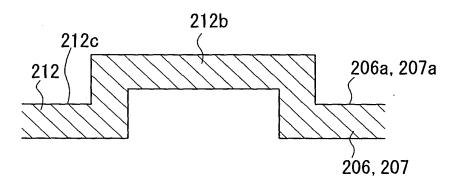


FIG. 49

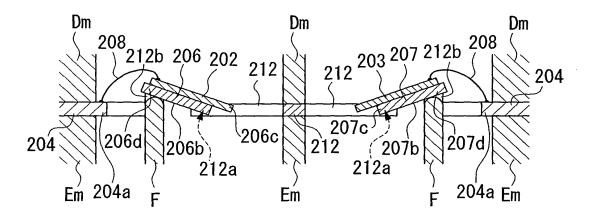


FIG. 50

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

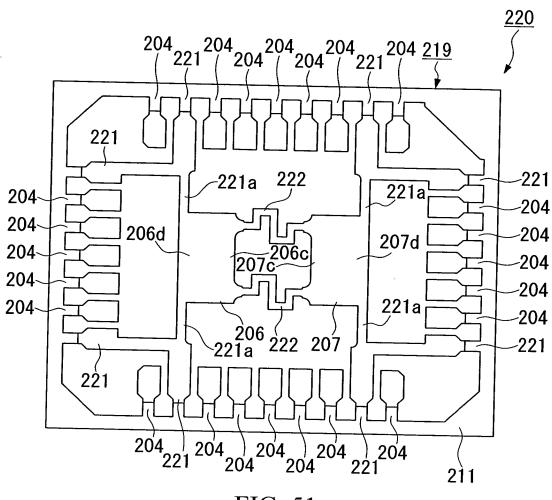


FIG. 51

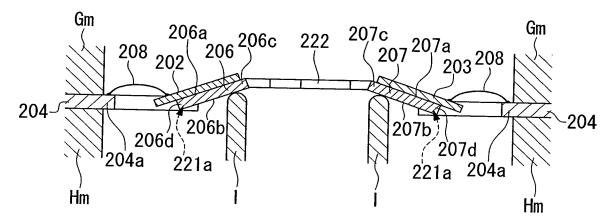


FIG. 52

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

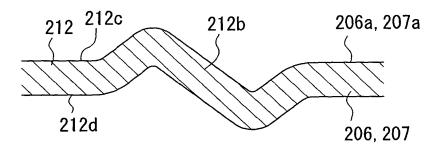


FIG. 53A

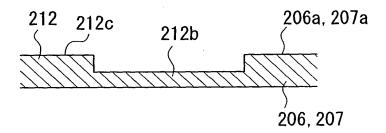


FIG. 53B

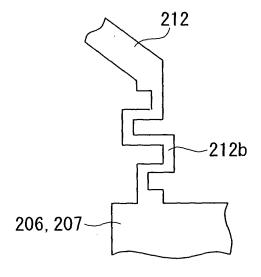


FIG. 53C

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

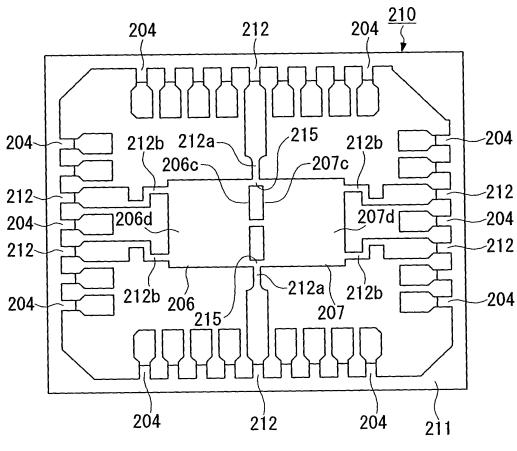
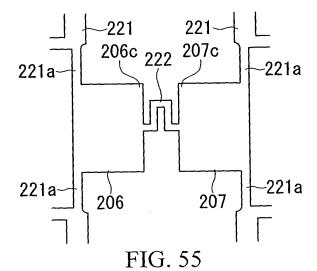
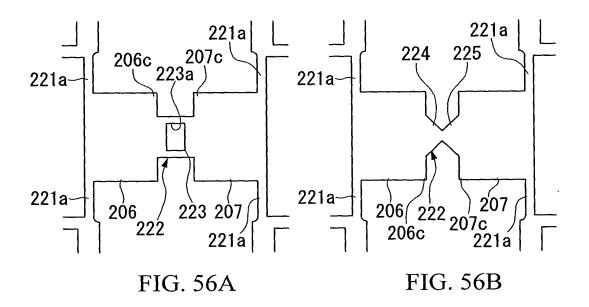


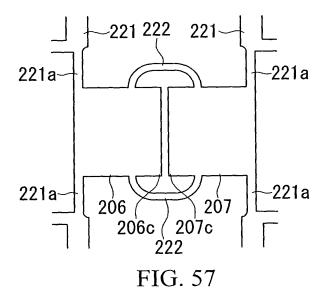
FIG. 54



Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

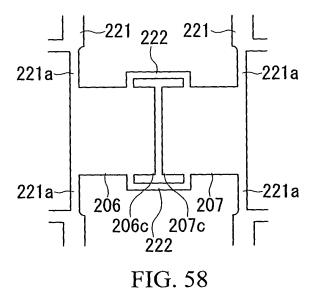




Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



221a 221 222 221 221a 221a 221a 206c 207c 222 FIG. 59

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

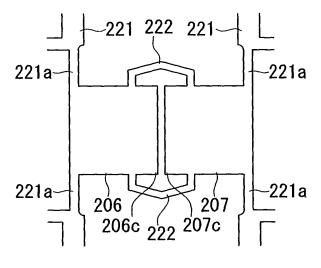


FIG. 60

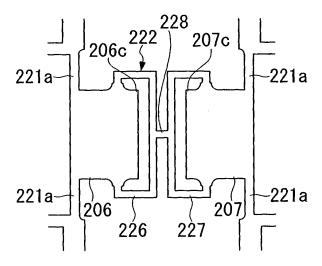


FIG. 61

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

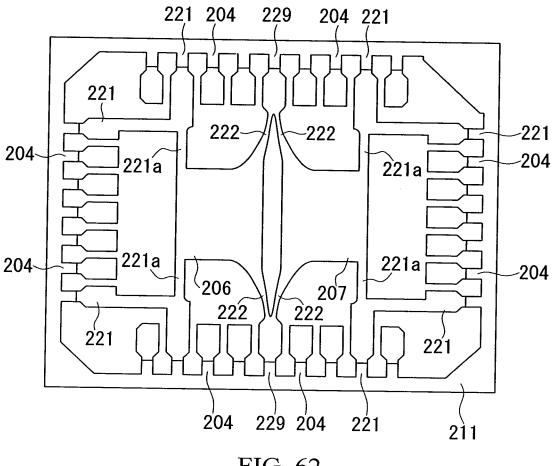


FIG. 62

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

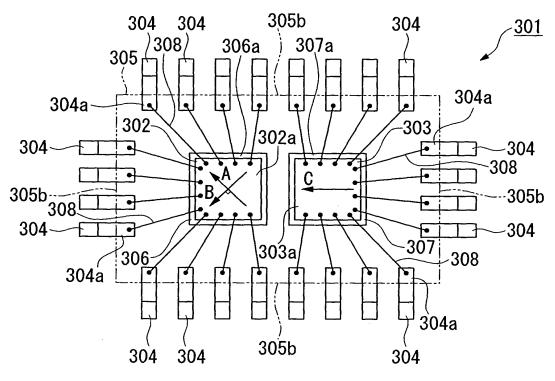


FIG. 63

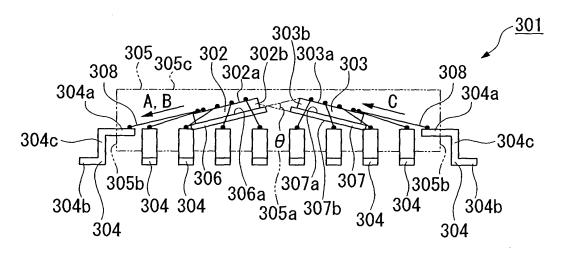
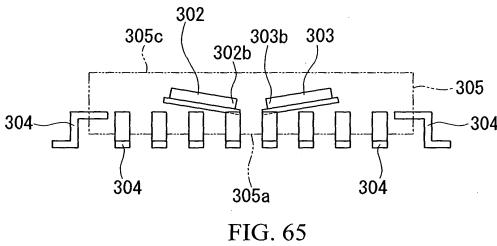


FIG. 64

Docket No.: X2007.0136

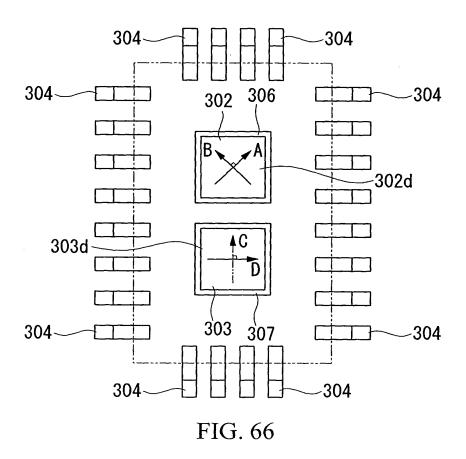
App No.: Not Yet Assigned Docket No.: X2007.0136
Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR
AND LEAD FRAME THEREFOR



Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

Docket No.: X2007.0136



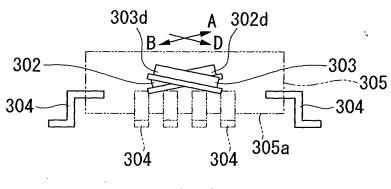


FIG. 67

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

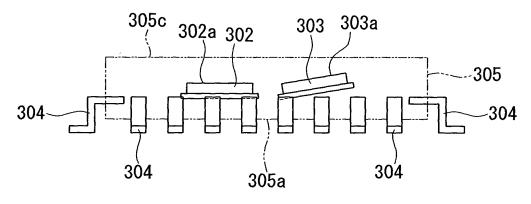
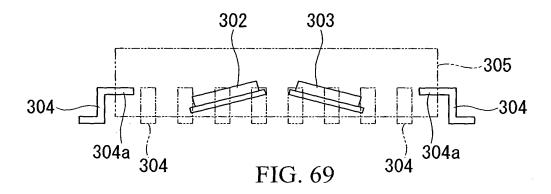


FIG. 68



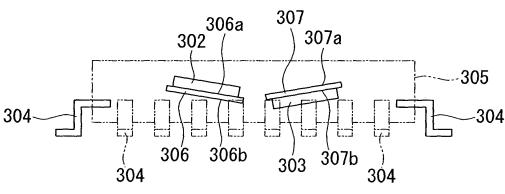


FIG. 70

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

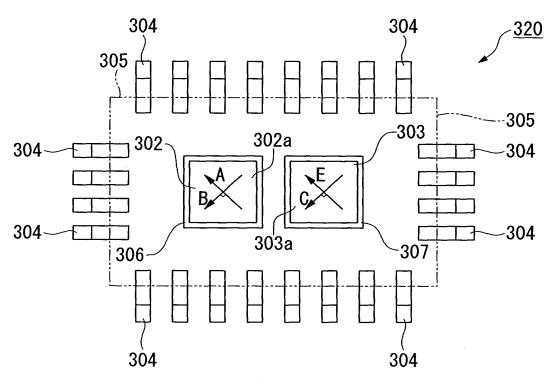


FIG. 71

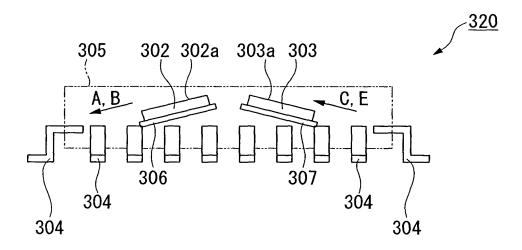
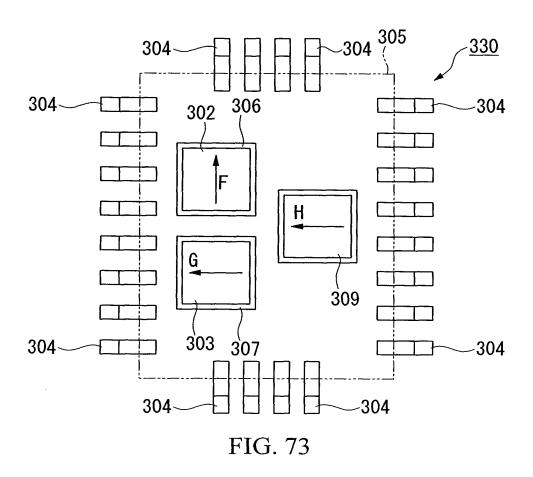


FIG. 72

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



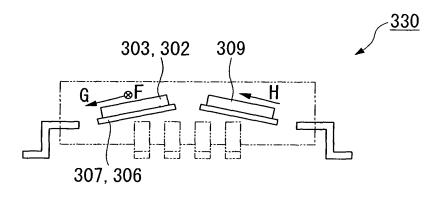


FIG. 74

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

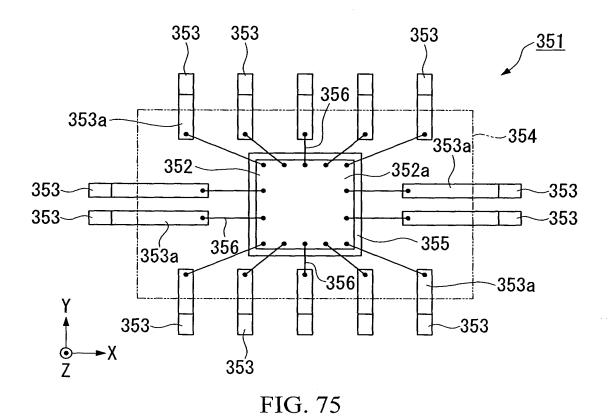
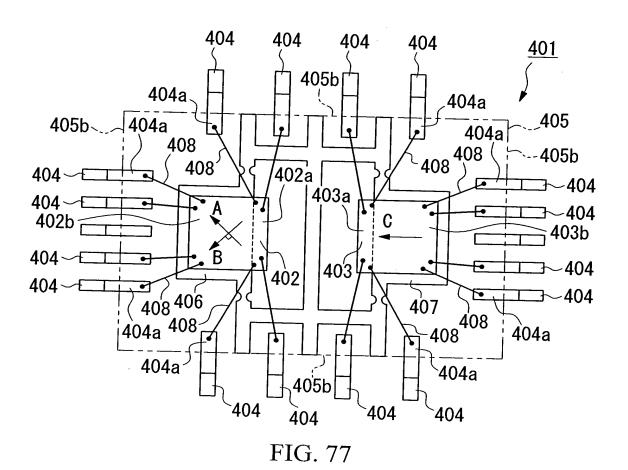


FIG. 76

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



402a 405 ⁴⁰⁵c 408 402b 403a) 404a 408 404a A, B 405b 405b 404c -404c 406 406a 403 407\\ 407b 404 402 404b θ 404 404 405a 404 404b

FIG. 78

App No.: Not Yet Assigned

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

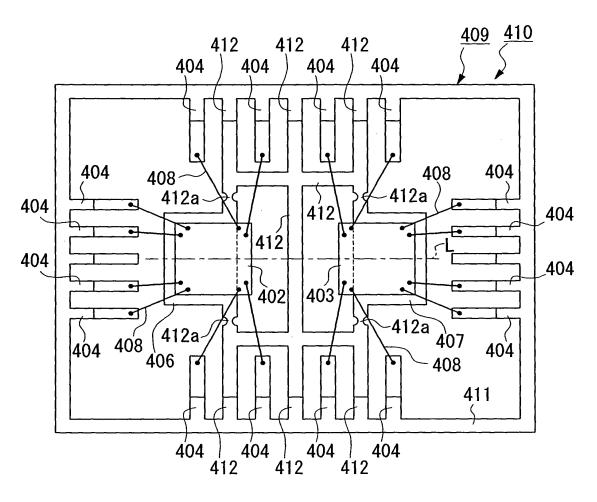
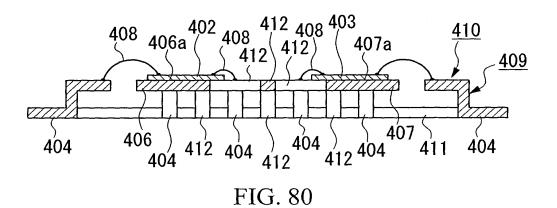


FIG. 79



App No.: Not Yet Assigned

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

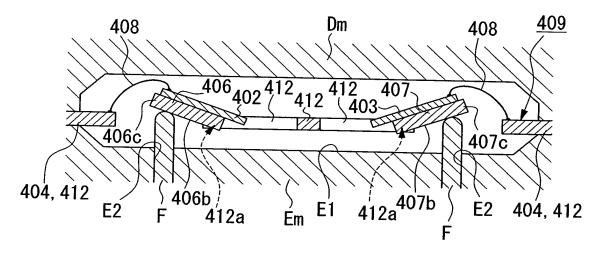
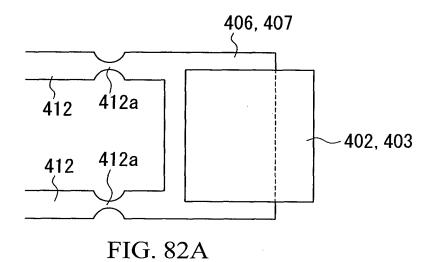


FIG. 81

App No.: Not Yet Assigned Docket No.: X2007.0136 Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



402, 403 406, 407 412a 412

FIG. 82B

App No.: Not Yet Assigned

Docket No.: X2007.0136

a, j.

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

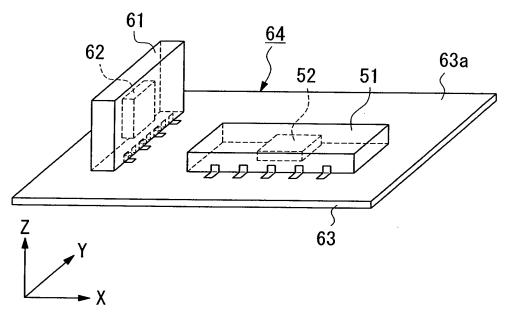


FIG. 83 (PRIOR ART)

CONDITION	BEARING a
Sa>0 & Sa > Sb	a=tan ⁻¹ (-Sb/Sa)
Sa<0 & Sa > Sb	a=180° (-Sb/Sa)
Sa<0 & Sa < Sb	a= 90° (-Sa/Sb)
Sa>0 & Sa < Sb	a=270° (-Sa/Sb)

FIG. 84

App No.: Not Yet Assigned Docket No.: X2007.0136 Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

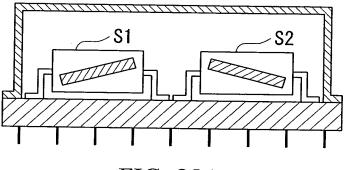


FIG. 85A

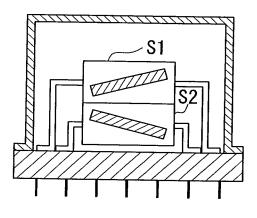
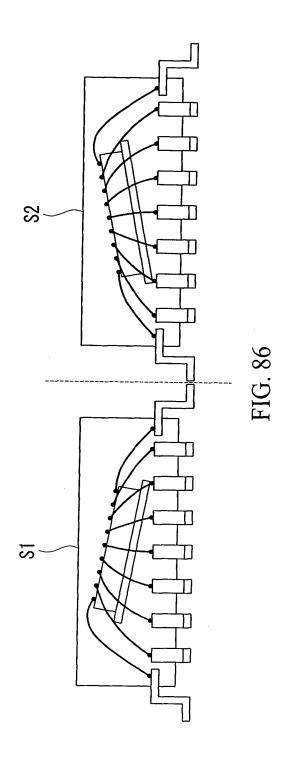


FIG. 85B

App No.: Not Yet Assigned Docket No.: X2007.0136
Inventor: Hiroshi Adachi, et al.
Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

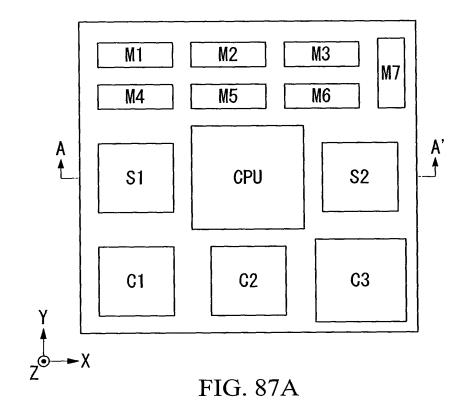


App No.: Not Yet Assigned

Docket No.: X2007.0136

Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR



S1 S2
CPU

FIG. 87B

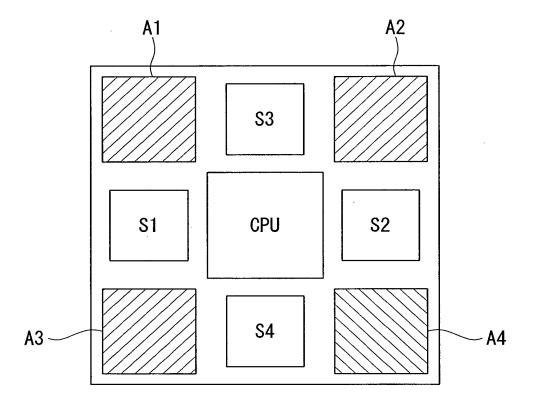


FIG. 88

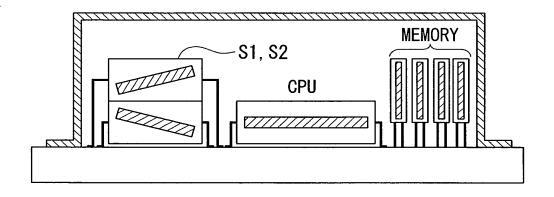


FIG. 89

Docket No.: X2007.0136

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

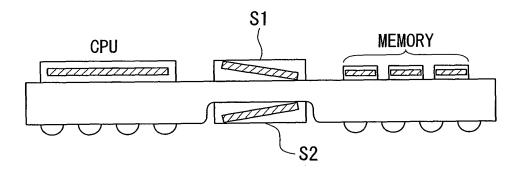


FIG. 90

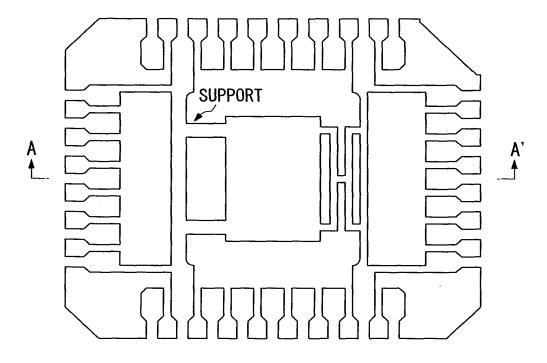


FIG. 91A

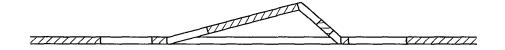


FIG. 91B

App No.: Not Yet Assigned Docket No.: X2007.0136 Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

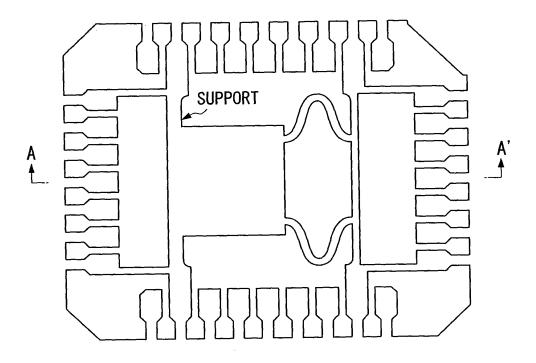


FIG. 92A

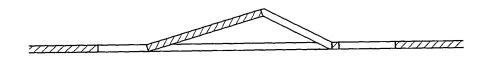


FIG. 92B

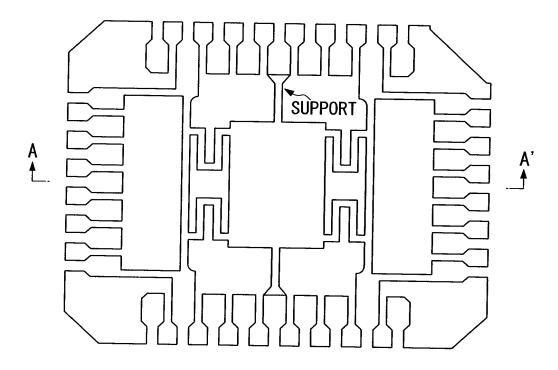


FIG. 93A



FIG. 93B

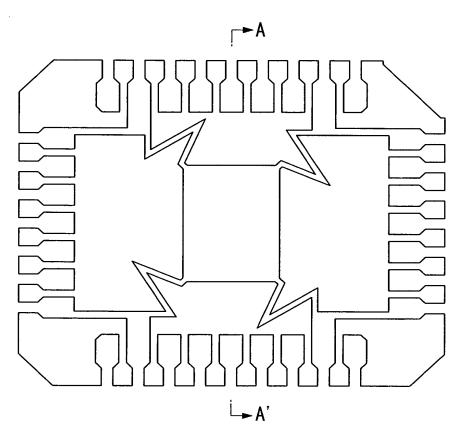


FIG. 94A



FIG. 94B

App No.: Not Yet Assigned Docket No.: X2007.0136 Inventor: Hiroshi Adachi, et al.

Title: MANUFACTURING METHOD FOR MAGNETIC SENSOR

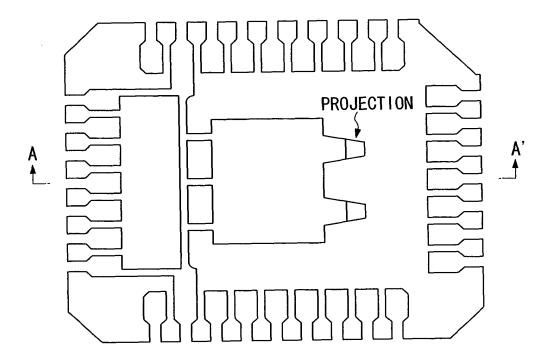


FIG. 95A



FIG. 95B

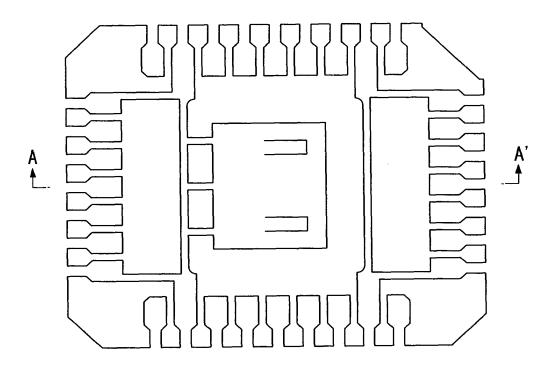


FIG. 96A



FIG. 96B

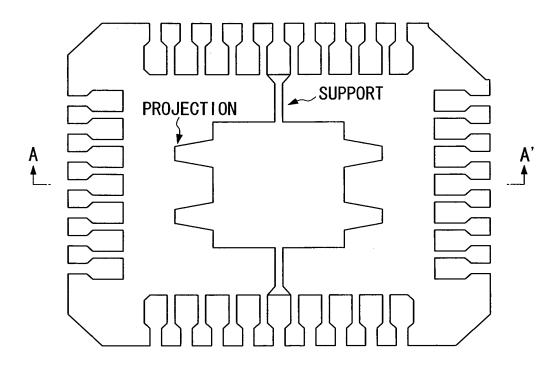


FIG. 97A



FIG. 97B